

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Eugene A. Gregerson, Richard K. Grant and Norbert J. Johnson  
Application No.: 10/645,322 Group Art Unit: 2882  
Filed: August 21, 2003 Examiner: Not Assigned  
Confirmation No.: 7578  
Title: GANTRY POSITIONING APPARATUS FOR X-RAY IMAGING

<b>CERTIFICATE OF MAILING OR TRANSMISSION</b>	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:	
<u>05/17/04</u> Date	<u>Donna Bartolone</u> Signature
Donna Bartolone Typed or printed name of person signing certificate	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or

(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:

☐ a Statement under 37 CFR 1.97(e), as checked below, or

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:

☐ a Statement under 37 CFR 1.97(e), as checked below, and

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
  - ☒ Copies of the cited references are enclosed.
    - ☒ Since this application was filed after June 30, 2003, copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
  - ☐ Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
  - ☒ The listed references (AG5, AH5, AI5, AA6) were cited in the enclosed International Search Report in a counterpart foreign application.
  - ☒ The "concise explanation" requirement (non-English references) for references AL, AO, AP, AL2, AN2 under 37 CFR 1.98(a)(3) is satisfied by:
    - ☒ the explanation provided on the attached sheet [AP].
    - ☐ the explanation provided in the Specification.
    - ☒ submission of the enclosed International Search Report (AG5, AH5, AI5, AA6).
    - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
    - ☒ the enclosed English language abstract( AL, AL2, AN2, AO).

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

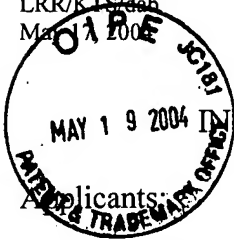
Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Kevin T. Shaughnessy  
Kevin T. Shaughnessy  
Registration No.: 51,014  
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Concord, MA 01742-9133

Dated: 5/17/04



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<u>Donna Bartolone</u>	
Typed or printed name of person signing certificate	

CONCISE EXPLANATION OF NON-ENGLISH LANGUAGE PUBLICATION  
UNDER 37 C.F.R. § 1.98(a)(3)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Reference AP (G 89 05 588.8) appears to disclose an x-ray imaging device.  
(See Figs.1-3). Consideration of this reference is requested.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Kevin T. Shaughnessy  
Kevin T. Shaughnessy  
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Concord, Massachusetts 01742

Dated: 5/17/04

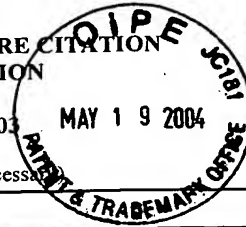
PTO-1449 REPRODUCED  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <b>December 12, 2003</b>  (Use several sheets if necessary)	ATTORNEY DOCKET NO. <b>3349.1004-001</b>		APPLICATION NO. <b>10/645,322</b>	
	APPLICANT <b>Eugene A. Gregerson, et al.</b>			
	FILING DATE <b>August 21, 2003</b>		CONFIRMATION NO. <b>7578</b>	GROUP <b>2882</b>

U.S. PATENT DOCUMENTS				
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AI5	5,159,622	10-27-1992	Sakaniwa, et al.
	AJ5	5,740,224	04-14-1998	Müller, et al.
	AK5	5,802,138	09-01-1998	Glasser, et al.
	AA6	US 6,325,537 B1	12-04-2001	Watanabe

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO	
	AL	DE 198 39 825 C 1	07-10-99	Germany (w/abstract)		
	AM	0 471 455 A2	19-07-91	EPO		
	AN	GB 2 088 670 A	09-06-82	United Kingdom		
	AO	DE 195 35 583 A1	27-03-97	Germany (w/abstract)		
	AP	G 89 05 588.8	13-09-90	Germany		X
	AO	0 564 292 A2	06-10-92	EPO		
	AL2	DE 199 27 953 A1	11-01-01	Germany (w/abstract)		
	AM2	WO 96/06561	07-03-96	PCT		
	AN2	FR 2 304 321	10/15/76	France (w/abstract)		
	AO2					
	AP2					
	AQ2					
	AL3					
	AM3					
	AN3					

EXAMINER	DATE CONSIDERED
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PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 3349.1004-001	APPLICATION NO. 10/645,322	
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <b>December 12, 2003</b> (Use several sheets if necessary)		APPLICANT <b>Eugene A. Gregerson, et al.</b>		
		FILING DATE <b>August 21, 2003</b>	CONFIRMATION NO. <b>7578</b>	GROUP <b>2882</b>



## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AA	US 6,203,196 B1	03-20-2001	Meyer, et al.
	AB	US 6,212,251 B1	04-03-2001	Tomura, et al.
	AC	US 6,289,073 B1	09-11-2001	Sasaki, et al.
	AD	US 6,322,251 B1	11-27-2001	Ballhaus, et al.
	AE	US 6,324,246 B1	11-27-2001	Ruimi
	AF	US 6,484,049 B1	11-19-2002	Seeley, et al.
	AG	Des. 345,606	03-29-1994	Perusek
	AH	Re. 36,415	11-30-1999	McKenna
	AI	Des. 323,386	01-21-1992	Perusek
	AJ	3,549,885	12-22-1970	Andersson
	AK	3,617,749	11-02-1971	Massiot
	AA2	4,200,799	04-29-1980	Saito
	AB2	4,352,986	10-05-1982	Pfeiler
	AC2	4,442,489	04-10-1984	Wagner
	AD2	4,481,656	11-06-1984	Janssen, et al.
	AE2	4,810,881	03-07-1989	Berger, et al.
	AF2	4,829,252	05-09-1989	Kaufman
	AG2	4,884,293	04-29-1980	Koyama
	AH2	4,935,949	06-19-1990	Fujita, et al.
	AI2	4,955,046	09-04-1990	Siczek, et al.
	AJ2	4,987,585	01-22-1991	Kidd, et al.
	AK2	5,014,293	05-07-1991	Boyd, et al.
	AA3	5,032,990	07-16-1991	Eberhard, et al.
	AB3	5,095,501	03-10-1992	Kobayashi
	AC3	5,097,497	03-17-1992	Deucher, et al.
	AD3	5,187,659	02-16-1993	Eberhard, et al.

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## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AE3	5,287,274	02-15-1994	Saint Felix, et al.
	AF3	5,319,693	06-07-1994	Eberhard, et al.
	AG3	5,390,112	02-14-1995	Tam
	AH4	5,448,607	09-05-1995	McKenna
	AI4	5,448,608	09-19-1995	Swain, et al.
	AJ3	5,452,337	09-19-1995	Endo, et al.
	AK3	5,499,415	03-19-1996	McKenna
	AA4	5,515,416	05-07-1996	Siczek, et al.
	AB4	5,583,909	12-10-1996	Hanover
	AC4	5,592,523	01-07-1997	Tuy, et al.
	AD4	5,625,660	04-26-1998	Tuy
	AE4	5,638,419	04-14-1998	Ingwersen
	AF3	5,661,772	08-26-1997	Bär, et al.
	AG4	5,740,222	04-14-1998	Fujita, et al.
	AH4	5,745,545	04-26-1998	Hughes
	AI4	5,784,428	04-26-1998	Schmidt
	AJ4	5,912,943	06-15-1999	Deucher, et al.
	AK3	6,041,097	03-21-2000	Roos, et al.
	AA5	6,147,352	11-14-2000	Ashburn
	AB5	4,741,015	04-26-1988	Charrier
	AC5	5,265,610	11-30-1993	Darrow, et al.
	AD5	US 6,487,267 B1	11-26-2002	Wolter
	AE5	US 2003/0072416 A1	04-17-2003	Rasche, et al.
	AF5	4,803,714	02-07-1989	Vlasbloem
	AG5	4,875,228	10-17-1989	Archer
	AH5	5,014,292	05-07-1991	Siczek, et al.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AR	SIREMOBIL Iso-C <sup>3D</sup> Breathtaking Views in the OR!, SIEMENS, Siemens Aktiengesellschaft Medical Solutions Henkestrasse 127, D-91052 Erlangen, pp. 1-16, no date given.	
AS	Ning, R., et al., "An Image Intensifier-Based Volume Tomographic Angiography Imaging System", <i>SPIE</i> Vol. 3032, pp. 238-247.	
AT	Chabbal, J., et al., "Amorphous Silicon X-Ray Image Sensor", <i>Physics of Medical Imaging</i> , Proceedings of SPIE, February 23-25, 1997, vol. 3032.	
AU	Hsiung, H., et al., "3D x-ray angiography: Study of factors affecting projection data consistency", <i>Physics of Medical Imaging</i> , Proceedings of SPIE, pp. 226-237, February 23-25, 1997, vol. 3032.	
AV	Lwata, K., et al., "Description of a Prototype Combined CT-SPECT System with a Single CdZnTE Detector", <i>Nuclear Science Symposium Conference Record</i> , 2000 IEEE, XP010556613, pp. 16-1 - 16-5.	
AW	Lang, T.F., et al., "A Prototype Emission-Transmission Imaging System", <i>Proceedings of the Nuclear Science Symposium and Medical Imaging Conference</i> , 1991 IEEE, XP010058199, pp. 1902-1906.	
AX	Lang, Thomas, F., et al., "Description of a Prototype Emission - Transmission Computed Tomography Imaging System", <i>Journal of Nuclear Medicine, Society of Nuclear Medicine</i> , 1992, XP002901050, pp. 1881- 1887.	
AY		
AZ		

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